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1 [Virtual memory and backing storage management in multiprocessor operating systems using object-oriented design techniques](#)

V. F. Russo, R. H. Campbell

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 24 Issue 10

Full text available: [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Choices operating system architecture [3, 4, 15] uses class hierarchies and object-oriented programming to facilitate the construction of customized operating systems for shared memory and networked multiprocessors. The software is being used in the Tapestry Parallel Computing Laboratory at the University of Illinois to study the performance of algorithms, mechanisms, and policies for parallel systems. This paper describes the architectural design and class hierarchy of ...

2 [Object-orientation in operating systems \(workshop session\)](#)

Vince Russo, Marc Shapiro

October 1990 **Proceedings of the European conference on Object-oriented programming addendum : systems, languages, and applications: systems, languages, and applications**

Full text available: [pdf\(1.23 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

3 [Process management and exception handling in multiprocessor operating systems using object-oriented design techniques](#)

Vincent Russo, Gary Johnston, Roy Campbell

January 1988 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 23 Issue 11

Full text available: [pdf\(1.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The programming of the interrupt handling mechanisms, process switching primitives, scheduling mechanisms, and synchronization primitives of an operating system for a multiprocessor require both efficient code in order to support the needs of high-performance or real-time applications and careful organization to facilitate maintenance. Although many advantages have been claimed for object-oriented class hierarchical languages and their corresponding design methodologies, the application of ...

4 Session: The COOL architecture and abstractions for object-oriented distributed operating systems

Rodger Lea, Christian Jacquemot

September 1992 **Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring**

Full text available:  [pdf\(594.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Building distributed operating systems benefits from the micro-kernel approach by allowing better support for modularization. However, we believe that we need to take this support a step further. A more modular, or object oriented approach is needed if we wish to cross the barrier of complexity that is holding back distributed operating system development. The Chorus Object Oriented Layer (COOL) is a layer built above the Chorus micro-kernel designed to extend the micro-kernel abstractions with ...

5 Extending the operating system to support an object-oriented environment

J. A. Marques, P. Guedes

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 24 Issue 10

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Comandos is a project within the European Strategic Programme for Research on Information Technology - ESPRIT and it stems from the identified need of providing simpler and more integrated environments for application development in large distributed systems. The fundamental goal of the project is the definition of an integrated platform providing support for distributed and concurrent processing in a LAN environment, extensible and distributed data management an ...

6 Object oriented operating systems: An emerging design methodology

Ariel Pashtan

January 1982 **Proceedings of the ACM '82 conference**

Full text available:  [pdf\(474.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Object oriented design of operating systems has evolved from pure protection considerations to a more general methodology of design as exemplified in Intel's iAPX-432 machine. This paper compares and contrasts, from an architectural point of view, eight major object oriented operating systems. Five different architectural aspects have been chosen as a basis for this analysis. These aspects include: uniformity of the object approach, object type extensibility, the process concept, the domain ...

Keywords: Capability, Domain, Kernel, Object model, Object oriented operating system, Object types, Process, Protection

7 An object-oriented operating system interface

Juanita J. Ewing

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available:  [pdf\(796.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses an object-oriented interface from the Smalltalk-80™ programming environment to a Unix-like operating system. This interface imposes an object-oriented paradigm on operating system facilities. We discuss some of the higher order abstractions that were created to make use of these facilities, and discuss difficulties we encountered implementing this interface. Several examples of cooperating Smalltalk and operating

system processes are presented.

8 **EOS: an object-oriented operating system for embedded real-time applications**

David Langan

March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Full text available:  [pdf\(800.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Increases in hardware availability and capability have caused microprocessor based real-time embedded systems to become increasingly pervasive [8,9]. With this popularity, however, has come an increase in the size and complexity of embedded applications. Dealing with this complexity typically involves runtime support for interprocess communication and synchronization, memory sharing, device management [9], and, less typically, for error recovery and debugging [4,8]. Most real-time e ...

9 **Zeus: An object-oriented distributed operating system for reliable applications**

James C. Browne, James E. Dutton, Vincent Fernandes, Annette Palmer, Jonathan Silverman, Anand R. Tripathi, Pong-sheng Wang

January 1984 **Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge**

Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the principles followed in designing Zeus, an object-oriented distributed operating system designed to study integration of recovery mechanisms into the designs of distributed command and control systems. The primary goal of the Zeus design is to define reliable object management functions for distributed command and control systems and to evaluate the performance and the correctness of the recovery mechanisms for these functions. Therefore, no implementation of this des ...

10 **Session: On object orientation as a paradigm for general purpose distributed operating systems**

Vinny Cahill, Seán Baker, Brendan Tangney, Chris Horn, Neville Harris

September 1992 **Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring**

Full text available:  [pdf\(464.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In the Amadeus project we have been considering the construction of a general purpose distributed support environment for object oriented programming. In this paper we tackle a number of key areas whose interaction must be addressed in the design of such a general purpose object support system: 1) integration of support for (object oriented) database systems; 2) integration of security mechanisms suitable for objects; and 3) operating system support to allow object oriented applications exploit ...

11 **Designing and implementing Choices: an object-oriented system in C++**

Roy H. Campbell, Nayeem Islam, David Raila, Peter Madany

September 1993 **Communications of the ACM**, Volume 36 Issue 9

Full text available:  [pdf\(3.22 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: concurrency, concurrent object-oriented programming

12 **A probe-based monitoring scheme for an object-oriented distributed operating system**

Partha Dasgupta

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

13 An object-oriented file system—an example of using the class hierarchy framework concept

Tomas Smolik

April 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 2

Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


This paper presents the design of an object-oriented file system which was developed as a part of the "OBJIX Object-Oriented Operating System" project. The file system is a self-contained program system which is decomposed using a standard object-oriented framework concept. A novel approach to object-oriented frameworks, the Class Hierarchy Framework concept recapitulated in this paper, is employed in structuring components of the file system. Further, this paper illustrates on an example how th ...

Keywords: class hierarchy framework concept, decomposition, object-oriented file system, object-oriented framework, object-oriented operating system, structuring

14 Lightweight shared objects in a 64-bit operating system

Jeffrey S. Chase, Henry M. Levy, Edward D. Lazowska, Miche Baker-Harvey

October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications**, Volume 27 Issue 10

Full text available:  [pdf\(2.08 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Harmony as an object-oriented operating system

S. A. MacKay, W. M. Gentlemen, D. A. Stewart

September 1988 **ACM SIGPLAN Notices , Proceedings of the 1988 ACM SIGPLAN workshop on Object-based concurrent programming**, Volume 24 Issue 4

Full text available:  [pdf\(445.84 KB\)](#) Additional Information: [full citation](#), [index terms](#)

16 Session 8: Operating system architecture: Objects to the rescue!: or *httpd*: the next generation operating system

Andrew P. Black, Jonathan Walpole

September 1994 **Proceedings of the 6th workshop on ACM SIGOPS European workshop: Matching operating systems to application needs**

Full text available:  [pdf\(398.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This position paper suggests that object-oriented operating systems may provide the means to meet the ever-growing demands of applications. As an example of a successful OOOS, we cite the http daemon. To support the contention that *httpd* is in fact an operating system, we observe that it implements uniform naming, persistent objects and an invocation meta-protocol, specifies and implements some useful objects, and provides a framework for extensibility. We also believe that the modularity ...

17 Mach and Matchmaker: kernel and language support for object-oriented distributed systems

Michael B. Jones, Richard F. Rashid

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available:  pdf(826.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mach, a multiprocessor operating system kernel providing capability-based interprocess communication, and Matchmaker, a language for specifying and automating the generation of multi-lingual interprocess communication interfaces, are presented. Their usage together providing a heterogeneous, distributed, object-oriented programming environment is described. Performance and usage statistics are presented. Comparisons are made between the Mach/Matchmaker environment and other related systems. ...

18 [Object-oriented database systems](#)

François Bancilhon

March 1988 **Proceedings of the seventh ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes my vision of the current state of object-oriented database research. I first briefly define this field by its objectives, and relate it to other database subfields. I describe what I consider to be the main characteristics of an object oriented system, i.e. those which are important to integrate in a database system: encapsulation, object identity, classes or types, inheritance, overriding and late binding. I point out the differences between an object oriented system a ...

19 [Semantic locking in object-oriented database systems](#)

Rodolfo F. Resende, Divyakant Agrawal, Amr El Abbadi

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available:  pdf(1.66 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Object-oriented databases are being increasingly used to model non-standard applications that emphasize modularity, composition, and rapid prototyping. A semantic locking protocol is presented for transaction management for such object-oriented databases. In particular, the protocol incorporates the semantics of complex objects, nested executions and dynamic conflicts resulting from referentially shared objects.

20 [Objects to the rescue! or httpd: the next generation operating system](#)

Andrew P. Black, Jonathan Walpole

January 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 1

Full text available:  pdf(392.20 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This position paper suggests that object-oriented operating systems may provide the means to meet the ever-growing demands of applications. As an example of a successful OOOS, we cite the http daemon. To support the contention that *httpd* is in fact an operating system, we observe that it implements uniform naming, persistent objects and an invocation meta-protocol, specifies and implements some useful objects, and provides a framework for extensibility. We also believe that the modularity ...

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1 [HydroJ: object-oriented pattern matching for evolvable distributed systems](#)

Keunwoo Lee, Anthony LaMarca, Craig Chambers

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications**, Volume 38 Issue 11

Full text available: [pdf\(311.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In an evolving software system, components must be able to change independently while remaining compatible with their peers. One obstacle to independent evolution is the *brittle parameter problem*: the ability of two components to communicate can depend on a number of *inessential* details of the types, structure, and/or contents of the values communicated. If these details change, then the components can no longer communicate, even if the *essential* parts of the message remain ...

Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented programming, pattern matching, semi-structured data, software evolution, ubiquitous computing

2 [The model, language, and implementation of an object-oriented multimedia knowledge base management system](#)

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1


Full text available: [pdf\(3.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-established ...

3 [Exception-based information flow control in object-oriented systems](#)

Elisa Bertino, Sabrina De Capitani Di Vimercati, Elena Ferrari, Pierangela Samarati

November 1998 **ACM Transactions on Information and System Security (TISSEC)**, Volume 1 Issue 1

Full text available:  pdf(457.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


We present an approach to control information flow in object-oriented systems. The decision of whether an information flow is permitted or denied depends on both the authorizations specified on the objects and the process by which information is obtained and transmitted. Depending on the specific computations, a process accessing sensitive information could still be allowed to release information to users who are not allowed to directly access it. Exceptions to the permissions and restricti ...

Keywords: access control, confidentiality, information flow control, object-oriented databases and systems

4 Extending the operating system to support an object-oriented environment

J. A. Marques, P. Guedes

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 24 Issue 10


Full text available:  pdf(1.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Comandos is a project within the European Strategic Programme for Research on Information Technology - ESPRIT and it stems from the identified need of providing simpler and more integrated environments for application development in large distributed systems. The fundamental goal of the project is the definition of an integrated platform providing support for distributed and concurrent processing in a LAN environment, extensible and distributed data management an ...

5 Queries and query processing in object-oriented database systems

David D. Straube, M. Tamer Özsu

October 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 4

Full text available:  pdf(3.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Object-oriented database mangement systems (OODBMS) combine the data abstraction and computational models of object-oriented programming languages with the query and performance capabilities of database management systems. A concise, formal data model for OODBMS has not been universally accepted, preventing detailed investigation of various system issues such as query processing. We define a data model that captures the essence of classification-based object-oriented systems and formalize c ...

Keywords: object algebra, object calculus, object-oriented databases, query transformation rules

6 An object-oriented operating system interface

Juanita J. Ewing

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available:  pdf(796.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses an object-oriented interface from the Smalltalk-80™ programming environment to a Unix-like operating system. This interface imposes an object-oriented paradigm on operating system facilities. We discuss some of the higher order abstractions that were created to make use of these facilities, and discuss difficulties we encountered implementing this interface. Several examples of cooperating Smalltalk and operating system processes are presented.

7 An efficient method for checking object-oriented database schema correctness

A. Formica, H. D. Groger, M. Missikoff

September 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 3

Full text available:  pdf(261.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Inheritance is introduced in object-oriented systems to enhance code reuse and create more compact and readable software. Powerful object models adopt multiple inheritance, allowing a type (or class) definition to inherit from more than one supertype. Unfortunately, in applying this powerful modeling mechanism, inheritance conflicts may be generated, which arise when the same property or operation is defined in more than one supertype. Inheritance conflicts identification and resolution is ...

Keywords: databases, graph theory, inheritance conflicts, inheritance process, object-oriented database schemas, recursive types

8 Special issue on persistent object systems: Fibonacci: a programming language for object databases

Antonio Albano, Giorgio Ghelli, Renzo Orsini

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Full text available:  pdf(2.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Fibonacci is an object-oriented database programming language characterized by static and strong typing, and by new mechanisms for modeling databases in terms of objects with roles, classes, and associations. A brief introduction to the language is provided to present those features, which are particularly suited to modeling complex databases. Examples of the use of Fibonacci are given with reference to the prototype implementation of the language.

Keywords: data models, database programming languages, objects with roles

9 Extensible file system (ELFS): an object-oriented approach to high performance file I/O

John F. Karpovich, Andrew S. Grimshaw, James C. French

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available:  pdf(1.84 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scientific applications often manipulate very large sets of persistent data. Over the past decade, advances in disk storage device performance have consistently been outpaced by advances in the performance of the rest of the computer system. As a result, many scientific applications have become I/O-bound, i.e. their run-times are dominated by the time spent performing I/O operations. Consequently, the performance of I/O operations has become critical for high performance in these applicatio ...

10 Hyper9002: an online operating manual for a chemical manufacturer using hypertext integrated with an object oriented database


Gaël Paquet

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**

Full text available:  pdf(984.97 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

11 Special issue on persistent object systems: Tigukat: a uniform behavioral objectbase management system

M. Tamer Özsu, Randal Peters, Duane Szafron, Boman Irani, Anna Lipka, Adriana Muñoz
July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 4 Issue 3

Full text available:  pdf(2.78 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the TIGUKAT objectbase management system, which is under development at the Laboratory for Database Systems Research at the University of Alberta. TIGUKAT has a novel object model, whose identifying characteristics include a purely behavioral semantics and a uniform approach to objects. Everything in the system, including types, classes, collections, behaviors, and functions, as well as meta-information, is a first-class object with well-defined behavior. In this way, the model abstr ...

Keywords: database management, objectbase management, persistent storage system, reflective system

12 Modelling: Specifying and implementing the operational use of constraints in object-oriented applications

Bart Verheecke, Ragnhild Van Der Straeten

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications - Volume 10**

Full text available:  pdf(991.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design of software applications largely amounts to capturing constraints, representing the domain under study. Current case-tools do not provide an unambiguous way to represent constraints and ignore most of the constraints when moving to code. In this article constraints are expressed in the Object Constraint Language (OCL) on class diagrams of the Unified Modelling Language (UML). We present a framework assisting the developer in making the transition from constraints on detailed design le ...

Keywords: UML/OCL tool support, automatic code generation, constraint, constraint checking, object constraint language, object-oriented programming

13 Object flavor evolution in an object-oriented database system

Qing Li, Dennis McLeod

April 1988 **ACM SIGOIS Bulletin , Conference Sponsored by ACM SIGOIS and IEEECS TC-OA on Office information systems**, Volume 9 Issue 2-3

Full text available:  pdf(961.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The ability to gracefully accommodate dynamic evolution is essential in data-intensive office information systems. Among the wide spectrum of kinds of conceptual database modification, there is an important subkind which involves changes to the fundamental semantics of objects, vis-a-vis their nature as symbolic, abstract, type (set), relationship (mapping), or behavioral (procedure). This kind of change is termed "object flavor evolution". For example, a real-world concept mode ...

14 An ada-based object-oriented modeling language

Guilan Dai, Baowen Xu

December 1999 **ACM SIGPLAN Notices**, Volume 34 Issue 12

Full text available:  pdf(936.80 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes an Ada-based object-oriented modeling language AML which is suitable to model large software systems. AML takes a unique and innovative approach to integrate the object-oriented Ada95-like syntax with formal methods in a modeling language. In the paper, the design philosophies of the language are firstly discussed. Secondly AML fundamental constructs and their inherent relations are analyzed. Thirdly the related work is briefly discussed and the main characteristics of the language are ...

Keywords: instance association, modeling method, nondeterminism, object-oriented modeling language, two-level concurrency model

15 A shared, segmented memory system for an object-oriented database

Mark F. Hornick, Stanley B. Zdonik

January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

Full text available:  pdf(2.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes the basic data model of an object-oriented database and the basic architecture of the system implementing it. In particular, a secondary storage segmentation scheme and a transaction-processing scheme are discussed. The segmentation scheme allows for arbitrary clustering of objects, including duplicates. The transaction scheme allows for many different sharing protocols ranging from those that enforce serializability to those that are nonserializable and require communi ...

16 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Full text available:  pdf(4.85 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...


Keywords: distributed objects, federated databases, integration, multidatabases, views

17 Index configuration in object-oriented databases

Elisa Bertino

July 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 3 Issue 3

Full text available:  pdf(2.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In relational databases, an attribute of a relation can have only a single primitive value, making it cumbersome to model complex objects. The object-oriented paradigm removes this difficulty by introducing the notion of nested objects, which allows the value of an object attribute to be another object or a set of other objects. This means that a class consists of a set of attributes, and the values of the attributes are objects that belong to other classes; that is, the definition of a class fo ...

Keywords: index selection, physical database design, query optimization

18 ADAMS: an object-oriented system for epidemiological data manipulation

Leonardo Meo-Evoli, Enrico Nardelli, Domenico M. Pisanelli, Fabrizio L. Ricci
March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing:
states of the art and practice**

Full text available:  [pdf\(778.97 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: epidemiological data manipulation, human-machine interface, object oriented approach, statistical database

- 19 The Data Model Compiler: a tool for generating object-oriented database systems
Fred Maryanski, John Bedell, Sheilah Hoelscher, Shuguang Hong, LouAnne McDonald, Joan Peckham, Darrell Stock
September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Full text available:  [pdf\(929.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Data Model Compiler project represents an effort to automatically produce object-oriented database systems. An analysis of data models of this genre leads to the conclusion that their significant differentiating characteristic is the set of fundamental, or built-in, relationships. This observation has lead to the development of a methodology for the generation of object-oriented data models which revolves around the specification of the basic relationships. Initially, the project focuse ...

- 20 An equational object-oriented data model and its data-parallel query language
Susumu Nishimura, Atsushi Ohori, Keishi Tajima
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This paper presents an equational formulation of an object-oriented data model. In this model, a database is represented as a *system of equations* over a set of oid's, and a database query is a transformation of a system of equations into another system of equations. During the query processing, our model maintains an *equivalence relation* over oid's that relates oid's corresponding to the same "real-world entity." By this mechanism, the model achieves a declarative set-based query l ...

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[A Type System for Java Bytecode Subroutines - Stata, Abadi \(1998\) \(Correct\) \(116 citations\)](#)

language, which we call JVMML, is an **object-oriented** language similar to Java. Its features the bytecode verifier-plus the **operating system**, which provides access to privileged <ftp.digital.com/pub/DEC/SRC/publications/ma/jvm-short-preprint.ps>

[Understanding Code Mobility - Member \(1998\) \(Correct\) \(85 citations\)](#)

[2] A. Fuggetta, G. P. Picco, and G. Vigna. Understanding Code Mobility. **IEEE Trans.** www.cse.sc.edu/~jmz/csce790f02/mobility.pdf

[Reusing Object-Oriented Designs - Johnson, Russo \(1991\) \(Correct\) \(50 citations\)](#)

Reusing **Object-Oriented** Designs Ralph E. Johnson Vincent F. Russo for the virtual memory subsystem of an **operating system**. 1 Introduction Experienced programmers www.ide.hk-r.se/~michaelm/fwpages/files/reusable-oo-design.ps

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applications likemulti-media, CAD, **object-oriented** data bases and scienti#c visualization. Even File System, developed by the Sprite **operating system** group at Berkeley. LFS is a #le system mode is used for smaller data transfers and #le system operations such as open, close and fstat. During www.pdl.cs.cmu.edu/PUBLICATIONS/raid-ii.pdf

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decades, and has survived numerous assaults (**object-oriented operating systems** and micro-kernels are two Exterminate All **Operating System** Abstractions Dawson R. Engler M. Frans www.stanford.edu/~engler/hotos-jeremiad.ps

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[7] J. Plaice and W.W. Wadge. A new approach to version control. omega.cse.unsw.edu.au/~plaice/intensional/.../publications/version/lemur1993.ps

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languages with pattern matching and on **object-oriented** languages. More precisely, our starting on the same machine, and that a centralized **operating system** provides security for them. In reality, pauillac.inria.fr/~fournet/papers/secure-implementation.ps.gz

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been considered elsewhere in the context of **object-oriented** systems [3]and in the **operating system** units of sequential execution. Although **operating system** processes are expensive (as operating ftp.cs.usask.ca/pub/discus/paper.94-7.ps.Z

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errors properly. Finally, it is modular and **object oriented**, so that it can easily support a variety of Part of the success of the Unix 1 **operating system** can be attributed to the design of its The appendix presents the performance of basic **system operations** on a number of systems. On AIX systems ftp.cs.toronto.edu/pub/parallel/OLD/Krieger_Stumm_Unrau_USenix92.ps.Z

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in Proceedings of the 5 th Conference on **Object-Oriented** Technologies and Systems, San Diego, CA)
nenya.ms.mff.cuni.cz/related/publ/nimmagadda-performancePatterns.pdf

A Flexible Middleware for Multimedia.. - Stiller, Class.. (1999) (Correct) (8 citations)
run-time support, and offers an easy-to-use, **object-oriented** application programming interface. While its
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goal of defining and implementing a portable **objectoriented** development environment for multimedia
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www.cwi.nl/ftp/CWIreports/IS/CS-R9327.ps.Z

Performance Evaluation of a Transactional DSM System - Wende, Schoettner.. (2002) (Correct) (7 citations)
Performance Evaluation of a Transactional DSM System M. Wende, M. Schoettner, R. Goeckelmann, T.
www.plurix.de/publications/2002/pdpta2002.pdf

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advanced data-intensive applications such as **object-oriented** database systems or multimedia storage
that we make in our work is that the **operating system** can access disks individually rather than
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3. <http://www.informatik.uni-stuttgart.de/ifi/ps/bernd/bibliography/bib/origs/ooos.bib>
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 Glendenning. National Radio Astronomy Observatory, Socorro, NM 87801.
 Abstract: ... changes in its underlying **operating** environment, for example from ...
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